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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,095	09/16/2003	Emir Gurer	006601P042D2	3729
7590 10/24/2005			EXAMINER	
Michael A. Be	ernadicou	LE, HOA VAN		
BLAKELY, SC	OKOLOFF, TAYLOR & 1	ZAFMAN LLP		
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			1752	1 11 11
Los Angeles, CA 90025			DATE MAILED: 10/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/664,095	GURER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoa V. Le	1752				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	<u>_</u> .					
2a) ☐ This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · ·					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar	y (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 01/12/05. 	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				
J.S. Patent and Trademark Office	<u> </u>					
PTOL-326 (Rev. 7-05) Office A	ction Summary P	art of Paper No./Mail Date 10172005				

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This is in response to Papers filed on 12 January 2005.

- I. The related application 09/624,712 now USP 6,746,826 is now found by the Office and made a record.
- II. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 3, 4, 5, 6, 8, 9, 10 and 11 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3 and 4 of U.S. Patent No. 6746826. Although the conflicting claims are not identical, they are not patentably distinct from each other because the applied claimed embodiments include those in the instant claims with respect to the steps of dispensing first developer, dwelling development, dispensing additional

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developer, dispensing an inert material (deionized water). The language "wafer" in the claims is broadly directed to "microelectronic structure" on col.1:9-16 and 4:56-63 such as a conventional semiconductor wafer substrate. Applicants may show, provide or urge otherwise to limit the claim language. The process being carrying out to prevent a precipitation to improve on yield and line width on col.1:56-65.

- III. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shibata et al (5,897,982) considered in view of Sakai et al (5,853,961).

Shibata et al disclose, teach and suggest a method for obtaining a polymer image on semiconductor substrate comprising the steps of dispensing a developer, dwelling (puddling) development and (dispensing additional developer and rising deionized water at the same time) to obtain little to no precipitation. Please see the whole disclosure of each of the applied references, especially in Shibata et al at

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figures 1(a-e), 4, 5 and 6 and their descriptions, col.1:11-19, 3:19 to 4:62, claims 1, 5, 7, 8, 9, 11, 12, 14, 15, 16, 17, 19, 20 and 21.

Shibata et al do not specify a spinning in at an angle and a laminar flowing air. Sakai et al at figures 2, 4, 5, 8 and 12 and their descriptions, col.2:51-52, 6:19-20 and 7:34-35 are cited to show the know use of the angular spinning to spin out a liquid on the substrate surface with an addition of a gravity force and a laminar flow for a uniformly supplied air to the substrate surface treatment on col.2:53-54 and 3:4-6.

Since the above references are all related to polymer images on semiconductor substrates, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use or cite the use of an angular spinning step for a reasonable expectation of spinning out a liquid on a substrate surface with an addition of a gravity force and use or cite a laminar flow step for a reasonable expectation of obtaining a uniformly supplied air to the substrate surface treatment as disclosed, taught and suggested in Sakai et al.

IV. Several other references on the record are found to be pertinent but cumulative to the above applied references.

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Any inquiry concerning this communication or earlier communications from V.

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the examiner should be directed to Hoa V. Le whose telephone number is 571-272-

1332. The examiner can normally be reached from 6:00 AM to 4:30 PM on

Monday though Thursday and about the same time of most Friday.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526.

Applicants may file a paper by (1) fax with a central facsimile receiving

number 703-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HOA VAN LE PRIMARY EXAMINER

17 October 2005

Hoa V. Le **Primary Examiner** Art Unit 1752